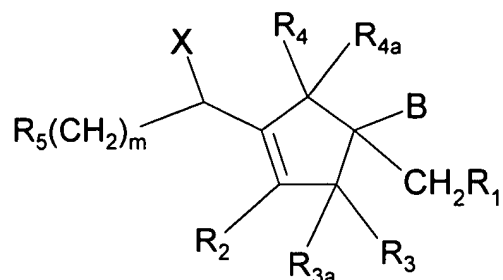
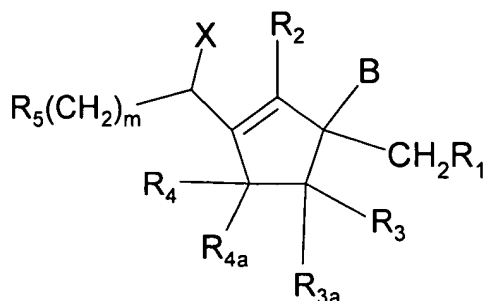


Abstract of the Disclosure



R_1 is chosen from C_{1-4} alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, aryl, substituted aryl, H, OR_9 , N_3 , NR_9R_{9a} , CO_2R_9 , SR_9 , with the exception wherein R_1 is OH

R_2 is selected from the group of H, halogen, N_3 , $(CH_2)_mR_5$,

R_3 and R_{3a} are individually chosen from the group consisting of H, OH, halogen, CN, NO_2 , N_3 , SR_9 , SO_2R_9 , $(CH_2)_mR_5$

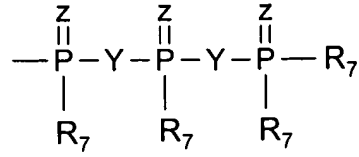
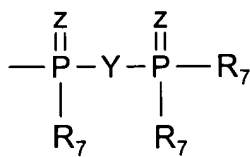
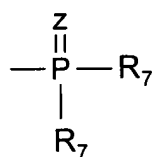
R_4 and R_{4a} are selected from the group of H, OH, Halogen, CN, NO_2 , N_3 , SR_9 , SO_2R_9 , $(CH_2)_mR_5$

X is selected from the group of H, OH, CN, NO_2 , N_3 , halogen

Both X and $(CH_2)_mR_5$ together can be $=O$, $=N-OH$

R_5 and R_{5a} are selected from the group of H, OR_9 , NR_9R_{9a} , $C(O)NR_9R_{9a}$, R_9 , R_6 , OR_6 , CO_2R_9 , $C(O)R_9$,

R_6 is chosen from :



R_7 is selected from the group consisting of H, F, SR_8 , OR_8

R_8 is chosen from the group of H, alkyl, alkenyl, alkynyl, aryl, and hydroxyprotecting group,

R_9 and R_{9a} are independently selected from the group of H, alkyl, alkenyl, alkynyl, and aryl

Y is chosen from CH_2 , CF_2 , CHF, and O,

Z is chosen from O, S,

B is selected from the group of purine, pyrimidine and heterocycle m is 0, 1, 2, 3, or 4 and pharmaceutically acceptable salts thereof and prodrugs thereof.